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Subpart G—Facilities

§ 627.42 Introduction.

The design of the facility is important in providing a secondary barrier to protect individuals inside and outside the facility. Because the hazards presented by various organisms and materials vary, the requirements for the facility will vary accordingly. The minimum facility requirements for the various biosafety levels and toxins are described below. The biosafety levels correspond to those described in the HHS Publication Biosafety in Microbiological and Biomedical Laboratories (HHS No. (NIH) 88–8395), while the large-scale biosafety levels were adapted from those described in the NIH Guidelines for Research Involving Recombinant DNA Molecules.

§ 627.43 Biosafety level 1.

(a) *Laboratories.* Each laboratory used for this level will, as a minimum, have the following features:

- (1) A sink for handwashing.
- (2) Work surfaces that are impervious to water and resistant to acids, alkalis, organic solvents, and moderate heat.
- (3) Fly screens on any windows that can be opened.
- (4) Furnishings and surfaces that are sturdy and designed to be easily cleaned.
- (5) Spaces between furnishings and equipment that are accessible for cleaning.

(b) *Animal facilities.* Each room will have the following features:

- (1) Design and construction to facilitate cleaning and housekeeping.
- (2) A sink for handwashing within the facility.
- (3) Fly screens on any windows that can be opened.
- (4) Ventilation designed so that the direction of airflow in the animal facility is inward, with the exhausted air discharged to the outside without being recirculated.
- (5) Self-closing doors that open inward.

§ 627.44 Biosafety level 2.

(a) *Laboratories.* Each laboratory used for this level of hazard will have, in addition to the requirements stated in § 627.43(a), the following:

- (1) An autoclave available.
- (2) Containment equipment necessary for the operations unless the safety officer approves the use of a compensatory level of personal protective equipment.

(3) An eyewash available near the laboratory.

(b) *Animal facilities.* In addition to the requirements stated in § 627.43(b), facilities will include—

- (1) A sink for handwashing in each room where animals are housed.
- (2) An autoclave available in the building.
- (3) Appropriate containment equipment unless the safety officer approves the use of a compensatory level of personal protective equipment.

§ 627.45 Biosafety level 3.

(a) *General requirements.* Each suite used as a laboratory or in which infected animals are housed will, as a minimum, have the following features:

- (1) Physical separation from areas which are open to unrestricted traffic.
- (2) All entrances to each laboratory or animal room from the nonlaboratory access corridors will be through two sets of doors. A change room or airlock may be incorporated between the doors.

(3) The interior surfaces of walls, floors, and ceilings will be water resistant so that they may be easily cleaned.

(4) All penetrations into the walls, floors, and ceilings should be sealed or capable of being sealed to facilitate decontamination.

(5) A foot, elbow, or automatically operated sink will be located near the exit door to each laboratory or animal room.

(6) An autoclave should be in each laboratory or animal room and will be available to the facility.

- (7) A ventilation system that will—
 - (i) Create directional airflow that draws air into the laboratory through the entry areas.
 - (ii) Not recirculate laboratory air.